

Attachment 7 Sampling and Analytical Methods for the Test and Clean Program

Type of Location	Locations	Samples to be collected	Number of Locations
Accessible areas are areas in which exposures of residents or the general public readily occur.	<p>i) Area or wall-to-wall carpeting. Locations include, in the order of most to least preferred location (on the basis of exposure considerations): 1) in the main entrance used for access and egress from the building; 2) carpet in the secondary, less heavily used entrance to the unit; 3) carpet in the center of the most frequently used play area for children under the age of six; and 4) carpet in an acknowledged or evident route of high traffic flow (i.e., stairs, hallway, etc.)</p> <p>ii) Kitchen tiled floor, hardwood floors, or hard floors of other surfaces types (lamineate, e.g.)</p> <p>iii) Draperies/curtains in the living room, which is the primary location if unit is a residence, and then draperies/curtains in other rooms of the unit</p> <p>iv) The wall at hand level for a resident child or adult where there are no children</p> <p>v) The wall adjacent to the head of the bed in a child's bedroom, or in the adult bedroom where no children occupy the unit</p> <p>vi) Kitchen counter tops</p> <p>vii) Table or desk tops</p> <p>viii) Upholstered furniture</p>	1 microvac, 1 PAHs wipe, 1 metal wipe at each location sampled	Scaled to floor area as follows: <1000sf = 3 locations, >1000 <5000sf = 5 locations, >5000sf = 7 locations, >10000sf = 10 locations
Infrequently accessed areas are areas in which dust may accumulate but cause infrequent exposure of	<p>i) Trough of a window sill</p> <p>ii) Top of vent ducts, or hot water pipes</p>	1 microvac, 1 PAHs wipe, 1 metal wipe at each location sampled	Scaled to floor area as follows: <1000sf = 3 locations, >1000 <5000sf = 5 locations, >5000sf = 7 locations, >10000sf = 10 locations

residents or the general public	iii) On top, beneath or behind large appliances or objects of furniture such as beds, chests, refrigerators, upright freezers, built in file cabinets or bookcases		
Indoor Air Sampling	Indoor air sample sets for asbestos and MMVF in common areas sampled Indoor air sample sets for asbestos and MMVF in accessible areas of units sampled	Set = one sample for each appropriate COPC in each common space or unit sampled	Scaled as follows: small spaces (<160sf), a 3 sample set will be collected; spaces 160sf -25,000sf, a 5 sample set will be collected; spaces >25,000sf, 1 sample set will be collected for each 5,000sf.

II. Analytical Parameters for Each Sample					
Sample	Analytical Parameters	Sampling Method	Description	Analytical Method	Benchmarks
Metal Wipe	Lead	HUD Appendix 13.1	Wipe samples	SW-846 6010C	Accessible loading 40 $\mu\text{g}/\text{ft}^2$ Infrequently accessed loading 400 $\mu\text{g}/\text{ft}^2$ Window wells loading 250 $\mu\text{g}/\text{ft}^2$
PAHs Wipe	PAHs	ASTM D 6661-01	Wipe samples	SW-846 8270D	Accessible loading 150 $\mu\text{g}/\text{m}^2$ Infrequently accessed loading 1.5 mg/m^2
Microvac	Asbestos	ASTM D 5755-03	Microvac samples	ASTM D 5755-03	Accessible loading 5,000 structures/ cm^2 , Infrequently accessed 50,000 structures/ cm^2
	MMVF	ASTM D 5755-03	Microvac samples	ASTM D 5755-03 Prep SEM analysis	Accessible loading 5,000 fibers/ cm^2 , Infrequently accessed 50,000 fibers/ cm^2
Indoor Air Samples	Asbestos	NIOSH 7400 3600 liter sample	Air samples	40 CFR Part 763 (AHERA protocol)	0.0009 S/cc
	MMVF	NIOSH 7400 3600 liter sample	Air samples	PLM NIOSH 7400 "B" counting rules	0.01f/cc